Index to Volume 59

The Journal of Heredity, 1968

Abplanalp, Hans, *et al.*, Early embryonic chrondrodystrophy in Japanese quail, 248.
Abraham, Susan, *et al.*, Autoradiographic studies of DNA synthesis in the B chromosomes of *Crepis capillaris*, 297.
Abt, D. A., *et al.*, Identification of the sex chromosomes of the domestic pig, 251.
Academic origin of geneticists in the United States, Thomas R. Mertens and Donna J. Howard, 353.
Adaption of domestic animals (rev.), Ralph W. Phillips, 200.
Alexander, D. E. and R. J. Lambert, Spontaneous mutation rate at the opaque-2 locus in maize, 378.
Alteration by Mitomycin C of spot frequencies in soybean leaves, Baldev K. Vig and Elton F. Paddock, 225.
Ames, Ira H., *et al.*, Autoradiographic studies of DNA synthesis in the B chromosomes of *Crepis capillaris*, 297.
Aneupolyploid complement of *Ceratophrys ornata*, N. O. Bianchi and J. O. Molina, 183.
Angus, Donald S., Chromosomal polymorphism in *Drosophila tetrachaeta*, 289.

Animal Genetics:
Adaptation of domestic animals (rev.), 200.
Aedes aegypti, small-antenna, a sex-linked mutant, 131.
Castle's demonstration relics offered, 242.
"Castle's law", some oddites in the delayed appreciation of, 110.
Cats: gene frequencies in a French rural district, 37; standardized genetic nomenclature for domestic, 39; gene frequencies in two Australian cities, 209.
Cattle: incomplete albinism and heterochromia irides in Herefords, 3; sex chromosome polymorphism, 35; smooth tongue in Brown Swiss, 65; complete albinism in Guernsey calf, 218; dominant incomplete albinism, 223; genetic evidence for lethal mutation in Holstein Friesian, 366.
Ceratophrys ornata, aneupolyploid complement, 183.
Cereal leaf beetle, chromosomes, 361.
Cockroach: eye color and linkage data for curly, hooded and pallid mutants, 105; linkage studies with markers for groups III and VIII, 318.
Dog, chromosome study of four breeds, 157.
Drosophila, simple rearing container, 98.
Drosophila athabasca: C-chromosome variation in "western" and "eastern" strains 87; comparison of C-chromosome patterns in *D. athabasca* and five related species, 323.
Drosophila melanogaster, evidence against mutagenic effects of vibration, 231.
Drosophila tetrachaeta, chromosomal polymorphism, 289.
Fish, chromosomes of zebra, 382.
Fowl: genetic control of parthenogenesis in chickens, 41; multi-trait case of lateral asymmetry in chickens, 53; parthenogenetic chick, 67; mitotic chromosomes of white Chinese geese, 191; early embryonic chrondrodystrophy in Japanese quail, 248; brown-rippled, recessive mutant in Muscovy duck, 309; male monovular avian twins, 346; sleepy-eye, an eyelid mutant in chickens, 375.
Foxes, adrenal size and tameness in color phase, 82.
Hamster, sex-linked, hind-leg paralysis in Syrian, 276.
Honey bee, allelism tests by compound inseminations, 145.
Mice: handedness, 9; linkage of open eyelids with linkage group VII, 27; effects of maternal genotype and treatment history on response to trypan blue, 29; blood sugar concentration of neurological mutants, 57; linkage of shambling with rex in linkage group VII, 59; dominant blind, 60; aphakia, 147; strain differences and genetic determination of kidney weight, 171; acatalasemia in linkage group V, 177; effects of irradiation on selection response, 269; three recessive mutations—achondroplasia, brachymorphic, and stubby—producing disproportionate dwarfing, 300; recessive yellow and its interaction with belted, 339; extension series, 341; effect of sire on litter size, 351; secondary sex ratio, 363.
Mormoniella, chromosomes of, 19.
Partridge, pigment in atretic follicles, 229.
Porcupine, chromosome complement and meiosis of the North American, 71.
Pyrrhocoris, autosomal recessive gene, 327.
Rana pipiens: speckle mutation, 163; dorsal spot number and snout-vent length, 235; speckle heterozygotes, 308.
Rats: inherited hypothalamic diabetes insipidus in Brattleboro strain, 113; genetic analysis of ethanol preference, 283.
Recessive genes, roles of parental types and gene frequencies in progeny testing, 120.
Sheep: serological estimate of monozygotic twinning, 211; influence of hereditary and environmental factors on twinning, 256; recurrence of Ancon dwarf in Merino, 267.
Snyder's ratios, extension to the case of epistasis, 117.
Swine: sex chromosome mosaicism, 166; atresia ani, 186; cytogenetics of animals in wildlife management area, 201; identification of sex chromosomes, 251.
Tribolium: genetic evidence for hypothesis of evolution, 188; influence of selection and mating systems on larval weight, 313.

Aphakia, a new mutation in the mouse, Don S. Varnum and Leroy C. Stevens, 147.
Arora, Y. K., *et al.*, Phenotypic variability of a spontaneous mutant of annual *Coreopsis*, 198.
Atz, James W. and Robert J. Winter, Further steps in the rehabilitation of N. I. Vavliov, 274.
Autoradiographic studies of DNA synthesis in the B chromosomes of *Crepis capillaris*, Susan Abraham, Ira H. Ames and Harold H. Smith, 297.
Autosomal recessive gene in *Pyrrhocoris*, T. M. Rizki and Karel Slama, 327.

Beck, Sidney L., Effects of maternal genotype and treatment on response to trypan blue, 29.
Bell, A. E., *et al.*, The influence of selection and mating systems on larval weight in *Tribolium*, 313.
Bempong, Maxwell and Kenneth Sink, The karyotype of poinsettia, 259.
Benirschke, K.: The chromosome complement and meiosis of the North American porcupine, 71; *et al.*, Inherited hypothalamic diabetes insipidus in the Brattleboro strain of rats, 113.
Bhatnagar, M. K., Mitotic chromosomes of white Chinese geese, 191.
Bianchi, N. O. and J. O. Molina, The aneupolyploid complement of *Ceratophrys ornata*, 183.
Blair, P. V., *et al.*, The influence of selection and mating systems on larval weight in *Tribolium*, 313.
Blind—a dominant mutation in mice, Margaret L. Watson, 60.

Blood sugar concentration of various neurological mutants of the mouse, Stanley J. Siegel, 57.
Bloor, Colin M. and Arthur S. Leon, Quantitative analysis of coronary artery inheritance, 48.
Bogart, Ralph: and James Womack, Effects of irradiation on selection response in mice, 269; *et al.*, The effect of sire on litter size in mice, 351.

Books Reviewed:
Goldstein, Philip, Genetics is Easy (4th ed.), 8.
Hafez, E. S. E. (Ed.), Adaption of Domestic Animals, 200.
King, Robert C., A Dictionary of Genetics, 292.
Putnam, Carleton, Race and Reality, 102.
Wright, Sewall, Evolution and the Genetics of Populations: I. Genetic and Biometric Foundations, 357.

Borgaonkar, D. S., *et al.*, Chromosome study of four breeds of dogs, 157.
Botkin, M. P., *et al.*, Influence of hereditary and environmental factors on twinning in sheep, 256.
Bouroncle, Bertha A., *et al.*, Unusual chromosomal findings in a case of myelofibrosis, 348.
Bouwkamp, J. C., *et al.*, Inheritance of dry pod-color in snap beans, 243.
Boyle, W. S., Effect of type and level of polyploidy on radiosensitivity in five species of the Triticeae, 151.
Brewster, D. J., Genetic analysis of ethanol preference in rats selected for emotional reactivity, 283.
Browder, Leon W.: Pigmentation in *Rana pipiens*: I. Inheritance of the speckle mutation, 163; *Rana pipiens* speckle heterozygotes, 308.
Brown-rippled, a recessive mutant in the Muscovy duck, W. F. Hollander, 309.
Brown, Russell V., Familial anodmia and red hair, 220.

Cartwright, T. C. and Nat M. Kieffer, Sex chromosome polymorphism in domestic cattle, 35.
Cat gene frequencies in two Australian cities, B. W. Moffatt, 209.
Chase, Sherret S., Complementary pollen fertility restoration in maize, 240.
Chicken, see Animal Genetics, *Fowl*.
Chromosomal polymorphism in *Drosophila tetrachaeta*, Donald S. Angus, 289.
Chromosome complement and meiosis of the North American porcupine, K. Benirschke, 71.
Chromosome numbers in *Ipomoea* and related genera, Alfred Jones, 99.
Chromosome study of four breeds of dogs, D. S. Borgaonkar, O. S. Elliot, M. Wong and J. P. Scott, 157.
Chromosome transmission by *Saccharum robustum* in interspecific crosses, Sam Price, 245.
Chromosomes of *Mormoniella*, P. W. Whiting, 19.
Chromosomes of the cereal leaf beetle, D. H. Smith, Thamby Ninan and S. G. Wellso, 361.
Chromosomes of the zebra fish: A model for cytogenetic-embryologic-ecologic study, Akira Endo and Theodore H. Ingalls, 382.
Cochran, Donald G. and Mary H. Ross, Genetic variability in the German cockroach: III. Eye color traits and linkage data for the curly, hooded and pallid mutants, 105; IV. Linkage studies with markers for groups III and VIII, 318.
Colladon of Geneva, a precursor of Mendel?, Alain F. Corcos, 373.
Collins, G. B., DNA synthesis in two species of *Nicotiana* and their hybrid, 13.
Collins, Robert L., On the inheritance of handedness: I. Laterality in inbred mice, 9.
Collins, W. M., *et al.*, Early embryonic chrondrodystrophy in Japanese quail, 248.
Comment on "Bogus science", Carleton S. Coon, 275.
Committee on standardized genetic nomenclature for cats, Standardized genetic nomenclature for the domestic cat, 39.
Complementary pollen fertility restoration in maize, Sherret S. Chase, 240.
Complete albinism in a Guernsey calf, H. W. Leipold, Keith Huston and K. N. Gelatt, 218.
Connelly, Maureen E. and C. William Nixon, Hind-leg paralysis: A new sex-linked mutation in the Syrian hamster, 276.
Coon, Carleton S., Comment on "Bogus science", 275.
Corcos, Alain F., Colladon of Geneva, a precursor of Mendel?, 373.
Cornefert-Jensen, Fr., *et al.*, Identification of the sex chromosomes of the domestic pig, 251.
Corn, see Plant Genetics, *Maize*.
Corrigendum: P. W. Whiting, The chromosomes of *Mormoniella*, 250.
Craig, George B., Jr. and Michael A. Dunn, Small-antenna, a sex-linked mutant of *Aedes aegypti*, 131.
Cyclopedic dictionary of genetics (rev.), Eldon J. Gardner, 292.
Cytogenetic location of the gene for purple plant color in maize, R. L. Phillips, 56.
Cytogenetics of swine in the Tellico Wildlife Management Area, Tennessee, Jack M. Rary, Vernon G. Henry, George H. Matschke and R. L. Murphree, 201.
Cytological studies of sorghum trisomics, J. Venkateswarlu and V. R. Reddi, 179.
Cytology of South Pacific sugarcane and related grasses with special reference to Fiji, Sam Price and Joe Daniels, 141.

Daniels, Joe and Sam Price, Cytology of South Pacific sugarcane and related grasses with special reference to Fiji, 141.
Dawson, Peter S., Genetic evidence for an hypothesis concerning evolution in *Tribolium*, 188.
Dickerman, Richard C., *et al.*, Position of the acatalasemia gene in linkage group V of the mouse, 177.
Dickie, Margaret M. and Priscilla W. Lane, Three recessive mutations producing disproportionate dwarfing in mice: Achondroplasia, brachymorphic, and stubby, 300.
Dioecious polyploid in *Rumex acetosella*, R. B. Singh, 168.
DNA synthesis in two species of *Nicotiana* and their hybrid, G. B. Collins, 13.
Dobzhansky, Th., More bogus "science" of race prejudice, (rev.), 102.
Dohare, S. R., *et al.*, Phenotypic variability of a spontaneous mutant of annual *Coreopsis*, 198.
Dominant incomplete albinism of cattle, H. W. Leipold and Keith Huston, 223.
Doolittle, Donald P., An extension of Snyder's ratios to the case of epistasis, 117.
Dreux, Ph., Gene frequencies in the cat population of a French rural district, 37.
Duncan, E. N., *et al.*, Mutation of gene for naked seed in cotton, 368.
Dunn, Michael A. and George B. Craig, Jr., Small-antenna, a sex-linked mutant of *Aedes aegypti*, 131.

Early embryonic chrondrodystrophy in Japanese quail, W. M. Collins, Hans Abplanalp and Shoji Yoshida, 248.
Effect of sire on litter size in mice, Prentiss Schilling, Warren North and Ralph Bogart, 351.
Effect of type and level of polyploidy on radiosensitivity in five species of the Triticeae, W. S. Boyle, 151.
Effects of irradiation on selection response in mice, James Womack and Ralph Bogart, 269.
Effects of maternal genotype and treatment history on response to trypan blue, Sidney L. Beck, 29.
Eisenberg, W. V., *et al.*, A simple rearing container for *Drosophila*, 98.
Elliot, O. S., *et al.*, Chromosome study of four breeds of dogs, 157.
Endo, Akira and Theodore H. Ingalls, Chromosomes of the zebra fish: A model for cytogenetic-embryologic-ecologic study, 382.
Endrizzi, J. E. and Donald F. Galen, Induction of monosomes and mutations in cotton by gamma irradiation of pollen, 343.

Erickson, H. T. and S. L. Lam, Pachytene chromosomes of *Solanum chacoense*, 369.
Eunus, A. M., Selection breeding in jute, 80.
Evidence against the mutagenic effects of vibration on *Drosophila melanogaster*, J. F. Kidwell and M. M. Kidwell, 231.
Extension of Snyder's ratios to the case of epistasis, Donald P. Doolittle, 117.
Extension series in the mouse, A. G. Searle, 341.

Familial anodmia and red hair, Russell V. Brown, 220.
Family with Dupuytren's contracture, Richard K. Maza and Richard M. Goodman, 155.
Feinstein, Robert N., *et al.*, Position of the acatalasemia gene in linkage group V of the mouse, 177.
F_1 hybrid muskmelons: V. Monoecism and male sterility in commercial seed production, Robert E. Foster, 205.
Foster, Robert E., F_1 hybrid muskmelons: V. Monoecism and male sterility in commercial seed production, 205.
Fromm, Edward, *et al.*, The genetics of adrenal size and tameness in colorphase foxes, 82.
Further steps in the rehabilitation of N. I. Vavliov, James W. Atz and Robert J. Winter, 274.

Galen, Donald F. and J. E. Endrizzi, Induction of monosomes and mutations in cotton by gamma irradiation of pollen, 343.
Gardner, Eldon J., A cyclopedic dictionary of genetics (rev.), 292.
Garrity, Ethel B., *et al.*, Inherited hypothalamic diabetes insipidus in the Brattleboro strain of rats, 113.
Gene frequencies in the cat population of a French rural district, Ph. Dreux, 37.
Genetic analysis of ethanol preference in rats selected for emotional reactivity, D. J. Brewster, 283.
Genetic and biometric foundations of populations (rev.), Jay L. Lush, 357.
Genetic control of parthenogenesis in chickens, M. W. Olsen, S. P. Wilson, and H. L. Marks, 41.
Genetic evidence for a lethal mutation in Holstein Friesian cattle, R. W. C. Stevens and G. J. King, 366.
Genetic evidence for an hypothesis concerning evolution in *Tribolium*, Peter S. Dawson, 188.
Genetic modification of cytoplasmic male sterility in tobacco, Seaward A. Sand, 175.
Genetic survey of resistance to powdery mildew in muskmelon, Richard R. Harwood and Deran Markarian, 213.
Genetic variability in the German cockroach: III. Eye color traits and linkage data for the curly, hooded and pallid mutants, 105; IV. Linkage studies with markers for groups III and VIII, Mary H. Ross and Donald G. Cochran, 318.
Genetics is easy (rev.), W. Ralph Singleton, 8.
Genetics of adrenal size and tameness in colorphase foxes, Clyde Keeler, Susan Ridgway, Laura Lipscomb and Edward Fromm, 82.
Gelatt, K. N., *et al.*, Complete albiniam in a Guernsey calf, 218.
Gerstel, D. U. and G. T. Webster, Heterochromatin in microspore nuclei of hybrids between *Nicotiana tabacum* and *N. otophora:* I. Experiments, 43.
Goodman, Richard M.: and Richard K. Maza, A family with Dupuytren's contracture, 155; *et al.*, Unusual chromosomal findings in a case of myelofibrosis, 348.
Grahn, Douglas, *et al.*, Position of the acatalasemia gene in linkage group V of the mouse, 177.
"Grandpa" gene: A chlorophyll mutation in *Hordeum* species, R. W. Matchett, B. M. Pollock and D. W. Robertson, 279.
Greb, Raymond J., A note on the occurrence of pigment in the atretic follicles of the partridge, 229.
Green, Earl L., Linkage of shambling with rex in linkage group VII of the mouse, 59.

Hairy pinnae in Nigeria, Curt Stern, Ann Schaefer and O. J. Okpe, 174.
Haploid meiosis and its bearing on the constitution of the castor oil plant, Anubhava Narain and Prakash Singh, 287.
Hare, W. C. D., *et al.*, Identification of the sex chromosomes of the domestic pig, 251.
Harwood, Richard R. and Deran Markarian: The inheritance of resistance to powdery mildew in the cantaloupe variety Seminole, 126; A genetic survey of resistance to powdery mildew in muskmelon, 213.
Hauschka, Theodore, S., *et al.*, Recessive yellow and its interaction with belted in the mouse, 339.
Heritability of dorsal spot number and snout-vent length in *Rana pipiens*, Donald K. Underhill, 235.
Henry, Vernon G., *et al.*, The cytogenetics of swine in the Tellico Wildlife Management Area, Tennessee, 201.
Heterochromatin in microspore nuclei of hybrids between *Nicotiana tabacum* and *N. otophora:* I. Experiments, G. T. Webster and D. U. Gerstel, 43; II. Statistical analysis, H. E. Schaffer, 45.
Hind-leg paralysis: A new sex-linked mutation in the Syrian hamster, C. William Nixon and Maureen E. Connelly, 276.
Holdridge, Barbara A., *et al.*, Recessive yellow and its interaction with belted in the mouse, 339.
Hollander, W. F., Brown-rippled, a recessive mutant in the Muscovy duck, 309.
Honma, S. *et al.*, Inheritance of dry pod-color in snap beans, 243.
Howard, Donna J. and Thomas R. Mertens, The academic origin of geneticists in the United States, 353.
Howard, Gene S., Polyploid carnations: Their identification and breeding behavior, 77.

Human Genetics:
Albinism and olfacto genes, 208.
Anodmia and red hair, 220.
Coronary artery, quantitative analysis of inheritance, 48.
Dupuytren's contracture, family pedigree, 155.
Genetics and evolution of populations (rev.), 357.
Geneticists, academic origin in the United States, 353.
Hairy pinnae in Nigerian males, 174.
Human genetics, society, and medicine, 329.
Myleofibrosis, chromosomal abnormalities, 348.
Race and Reality (rev.), 102.

Human genetics, society, and medicine, Arno G. Motulsky, 329.
Huston, Keith and H. W. Leipold: Incomplete albinism and heterochromia irides in Herefords, 3; Dominant incomplete albinism of cattle, 223.
Huston, Keith, *et al.*: Smooth tongue in Brown Swiss cattle, 65; complete albinism in a Guernsey calf, 218.

Identification of the sex chromosomes of the domestic pig, Fr. Cornefert-Jensen, W. C. D. Hare and D. A. Abt, 251.
Incomplete albinism and heterochomia irides in Herefords, H. W. Leipold and Keith Huston, 3.
Induction of monosomes and mutations in cotton by gamma irradiation of pollen, Donald F. Galen and J. E. Endrizzi, 343.
Influence of hereditary and environmental factors on twinning in sheep, D. V. Vakil, M. P. Botkin and G. P. Roehrkasse, 256.
Influence of selection and mating systems on larval weight in *Tribolium*, S. P. Wilson, P. V. Blair, W. H. Kyle and A. E. Bell, 313.
Ingalls, Theodore H. and Akira Endo, Chromosomes of the zebra fish: A model for cytogenetic-embryologic-ecologic study, 382.
Inheritance of dry pod-color in snap beans, S. Honma, J. C. Bouwkamp and M. J. Stojianov, 243.
Inheritance of handedness: I. Laterality in inbred mice, Robert L. Collins, 9.
Inheritance of resistance to powdery mildew in the cantaloupe variety Seminole, Richard R. Harwood and Deran Markarian, 126.

Inherited hypothalamic diabetes insipidus in the Brattleboro strain of rats, George B. Saul, II, Ethel B. Garrity, Kurt Benirschke and Heinz Valtin, 113.

Jacobs, Barbara, B., *et al.*, Recessive yellow and its interaction with belted in the mouse, 339.
Jones, Alfred, Chromosome numbers in *Ipomoea* and related genera, 99.

Karyotype of poinsettia, Maxwell Bempong and Kenneth Sink, 259.
Keeler, Clyde, *et al.*, The genetics of adrenal size and tameness in colorphase foxes, 82.
Keeler, Clyde: Some oddities in the delayed appreciation of "Castle's law", 110; Note on olfacto-genes, 208.
Kelton, Diane E. and Harold Rauch, Linkage of open eyelids with linkage group VII of the mouse, 27.
Key lecture: Human genetics, society, and medicine, Arno G. Motulsky, 329.
Kidney weight in mice: Strain differences and genetic determination, Gunther Schlager, 171.
Kidwell, J. F. and M. M. Kidwell, Evidence against the mutagenic effects of vibration on *Drosophila melanogaster*, 231.
Kidwell, M. M. and J. F. Kidwell, Evidence against the mutagenic effects of vibration on *Drosophila melanogaster*, 231.
Kieffer, Nat M. and T. C. Cartwright, Sex chromosome polymorphism in domestic cattle, 35.
King, G. J. and R. W. C. Stevens, Genetic evidence for a lethal mutation in Holstein Friesian cattle, 366.
Kleese, Roger A. and John R. Snyder, Root proteins of nodulating and non-nodulating soybeans, 380.
Komai, Taku, Pavlov and genetics, 311.
Kyle, W. H., *et al.*, The influence of selection and mating systems on larval weight in *Tribolium*, 313.

Laidlaw, H. H. and K. W. Tucker, More allelism tests in honey bees by compound inseminations, 145.
Lambert, R. J. and D. E. Alexander, Spontaneous mutation rate at the opaque-2 locus in maize. 378.
Lam, S. L. and H. T. Erickson, Pachytene chromosomes of *Solanum chacoense*, 369.
Lane, Priscilla W. and Margaret M. Dickie, Three recessive mutations producing disproportionate dwarfing in mice: Achondroplasia, brachymorphic, and stubby, 300.
Leipold, H. W. and Keith Huston: Incomplete albinism and heterochromia irides in Herefords, 3; Dominant incomplete albinism of cattle, 223.
Leipold, H. W., *et al.*, Smooth tongue in Brown Swiss cattle, 65; Complete albinism in a Guernsey calf, 218.
Leon, Arthur S. and Colin M. Bloor, Quantitative analysis of coronary artery inheritance, 48.
Lewis, Charles F., *et al.*, Mutation of gene for naked seed in cotton, 368.
Linkage of open eyelids with linkage group VII of the mouse, Diane E. Kelton and Harold Rauch, 27.
Linkage of shambling with rex in linkage group VII of the mouse, Earl L. Green, 59.
Lipscomb, Laura, *et al.*, The genetics of adrenal size and tameness in colorphase foxes, 82.
Lush, Jay L., Genetic and biometric foundations of populations (rev.), 357.

MacFadden, D. L., *et al.*, Smooth tongue in Brown Swiss cattle, 65.
Male monovular avian twins, Walter Morgan, 346.
Maner, B. A., Jr., *et al.*, Mutation of gene for naked seed in cotton, 368.
Markarian, Deran and Richard R. Harwood: The inheritance of resistance to powdery mildew in the cantaloupe variety Seminole, 126; A genetic survey of resistance to powdery mildew in muskmelon, 213.
Marks, H. L., *et al.*, Genetic control of parthenogenesis in chickens, 41; Parthenogenetic chick, 67.
Martin, Franklin W., The system of self-incompatibility in *Ipomoea*, 263.
Matchett, R. W., *et al.*, The "grandpa" gene: A chlorophyll mutation in *Hordeum* species, 279.
Matschke, George H., *et al.*, The cytogenetics of swine in the Tellico Wildelife Management Area, Tennessee, 201.
Maza, Richard K. and Richard M. Goodman, A family with Dupuytren's contracture, 155.
Mertens, Thomas R. and Donna J. Howard, The academic origin of geneticists in the United States, 353.
Meyer Memorial Medal awarded to Knowles Ryerson and William Whitehouse, 337.
Miller, Dwight D.: and Robert A. Voelker, Salivary gland chromosome variation in the *Drosophila affinis* subgroup: I. The C chromosome of "western" and "eastern" *Drosophila athabasca*, 87; and Warren G. Sanger, Salivary gland chromosome variation in the *Drosophila affinis* subgroup: II. A comparison of C-chromosome patterns in *D. athabasca* and five related species, 323.
Miller, Frances, *et al.*, Unusual chromosomal findings in a case of myelofibrosis, 348.
Mitotic chromosomes of white Chinese geese, M. K. Bhatnagar, 191.
Mitotic phenomena in the spider plant, William B. Storey, 23.
Moffatt, B. W., Cat gene frequencies in two Australian cities, 209.
Molina, J. O. and N. O. Bianchi, The aneupolyploid complement of *Ceratophrys ornata*, 183.
More allelism tests in honey bees by compound inseminations, K. W. Tucker and H. H. Laidlaw, 145.
More bogus "science" of race prejudice (rev.), Th. Dobzhansky, 102.
Morgan, Walter, Male monovular avian twins, 346.
Morphology of pachytene chromosomes in pearl millet, J. Venkateswarlu and J. V. Pantulu, 69.
Motulsky, Arno G., Human genetics, society, and medicine, 329.
Multi-trait case of lateral asymmetry in the fowl, Ralph G. Somes, Jr., 53.
Murphree, R. L., *et al.*, The cytogenetics of swine in the Tellico Wildlife Management Area, Tennessee, 201.
Mutation of gene for naked seed in cotton, Charles F. Lewis, E. N. Duncan and B. A. Maner, Jr., 368.

Narain, Anubhava, and Prakash Singh, Haploid meiosis and its bearing on the constitution of the castor oil plant, 287.
Nicotiana, see Plant Genetics, *Tobacco*.
Ninan, Thamby, *et al.*, Chromosomes of the cereal leaf beetle, 361.
Nixon, C. William, and Maureen E. Connelly, Hind-leg paralysis: A new sex-linked mutation in the Syrian hamster, 276.
Norrish, J. G. and J. C. Rennie, Observations on the inheritance of atresia ani in swine, 186.
Note on olfacto-genes, Clyde Keeler, 208.
Note on the occurrence of pigment cells in the atretic follicles of the partridge, Raymond J. Greb, 229.
North, Carol, *et al.*, Unusual chromosomal findings in a case of myelofibrosis, 348.
North, Warren, *et al.*, The effect of sire on litter size in mice, 351.

Observations on the inheritance of atresia ani in swine, J. G. Norrish and J. C. Rennie, 186.
Olsen, M. W., *et al.*, Genetic control of parthenogenesis in chickens, 41; Parthenogenetic chick, 67.
Overlooked 18th century contribution to plant breeding and plant selection, Conway Zirkle, 195.

Pachytene chromosomes of *Solanum chacoense*, H. T. Erickson and S. L. Lam, 369.
Paddock, Elton F. and Baldev K. Vig, Alteration by Mitomycin C of spot frequencies in soybean leaves, 225.
Pantulu, J. V. and J. Venkateswarlu, Morphology of pachytene chromosomes in pearl millet, 69.
Parthenogenetic chick, M. W. Olsen, H. L. Marks and S. P. Wilson, 67.
Pavlov and genetics, Taku Komai, 311.
Phenotypic variability of a spontaneous mutant of annual *Coreopsis*, J. N. Sharma, V. Swarup, J. P. Singh, S. R. Dohare and Y. K. Arora, 198.
Phillips, Ralph W., Adaption of Domestic Animals (rev.), 200.
Phillips, R. L., Cytogenetic location of the gene for purple plant color in maize, 56.
Pigmentation in *Rana pipiens*: I. Inheritance of the speckle mutation, Leon W. Browder, 163.

Plant Genetics:
Amaranthus, useful in genetic studies, 76.
Barley, chlorophyll mutation, 279.
Carnation, identification and breeding behavior of polyploid, 77.
Castor oil plant, haploid meiosis and its bearing on genetic constitution, 287.
Coreopsis, phenotypic variability of spontaneous mutant, 198.
Cotton: *Amaranthus caudatus* used in simulating breeding behavior of commercial *Gossypium* species, 17; induction of monosomes and mutations by gamma irradiation of pollen, 343; mutation of gene for naked seed, 368.
Crepis capillaris, autoradiographic studies of DNA synthesis in B chromosomes, 297.
Ipomoea: chromosome numbers, 99; system of self-incompatibility, 263.
Jute, selection breeding, 80.
Maize: cytogenetic location of gene for purple plant color, 56; complementary pollen fertility restoration, 240; spontaneous mutation rate at opaque-2 locus, 378.
Millet, morphology of pachytene chromosomes, 69.
Muskmelon: resistance to powdery mildew in Seminole cantaloupe, 126; monoecism and male sterility in commercial seed production, 205; genetic survey of resistance to powdery mildew, 213.
Plant breeding and selection in eighteenth century, 195.
Poinsettia, karyotype, 259.
Rumex acetosella, dioecious polyploid, 168.
Snap beans, dry pod-color, 243.
Solanum chacoense, pachytene chromosomes, 369.
Sorghum, cytological studies of trisomics, 179.
Soybean: alteration by Mitomycin C of leaf-spot frequencies, 225; root proteins of nodulating and non-nodulating, 380.
Spider plant, mitotic phenomena, 23.
Sugarcane: cytology of South Pacific, 141; chromosome transmission by *Saccharum robustum*, 245.
Tobacco: DNA synthesis in two species and hybrid, 13; heterochromatin in microspore nuclei of hybrids between *Nicotiana tabacum* and *N. otophora*: experiments, 43; statistical analysis, 45; genetic modification of cytoplasmic male sterility, 175.
Triticeae: effect of type and level of polyploidy on radiosensitivity in five species, 151.

Pollock, B. M., *et al.*, The "grandpa" gene: A chlorophyll mutation in *Hordeum* species, 279.
Polyploid carnations: Their identification and breeding behavior, Gene S. Howard, 77.
Position of the acatalasemia gene in linkage group V of the mouse, Richard C. Dickerman, Robert N. Feinstein and Douglas Grahn, 177.
Price, Sam: and Joe Daniels, Cytology of South Pacific sugarcane and related grasses with special reference to Fiji, 141; Chromosome transmission by *Saccharum robustum* in interspecific crosses, 245.
Progeny testing for recessive genes: Roles of parental types and gene frequencies, Robert H. Schaible, 120.

Quantitative analysis of coronary artery inheritance, Arthur S. Leon and Colin M. Bloor, 48.

Rana pipiens speckle heterozygotes, L. W. Browder, 308.
Rary, Jack M., *et al.*, The cytogenetics of swine in the Tellico Wildlife Management Area, Tennessee, 201.
Rauch, Harold and Diane E. Kelton, Linkage of open eyelids with linkage group VII of the mouse, 27.
Recessive yellow and its interaction with belted in the mouse, Theodore S. Hauschka, Barbara B. Jacobs and Barbara A. Holdridge, 339.
Recurrence of the Ancon dwarf in Merino sheep, Maurice Shelton, 267.
Reddi, V. R. and J. Venkateswarlu, Cytological studies of sorghum trisomics, 179.
Rennie, J. C. and J. G. Norrish, Observations on the inheritance of atresia ani in swine, 186.
Ridgway, Susan, *et al.*, The genetics of adrenal size and tameness in colorphase foxes, 82.
Rizki, T. M. and Karel Slama, An autosomal recessive gene in *Pyrrhocoris*, 327.
Robertson, D. W., *et al.*, The "grandpa" gene: A chlorophyll mutation in *Hordeum* species, 279.
Roderick, Thomas H. and Gunther Schlager, Seconday sex ratio in mice, 363.
Roehrkasse, G. P., *et al.*, Influence of hereditary and environmental factors on twinning in sheep, 256.
Root proteins of nodulating and non-nodulating soybeans, John R. Snyder and Roger A. Kleese, 380.
Ross, Mary H. and Donald G. Cochran: Genetic variability in the German cockroach: III. Eye color traits and linkage data for the curly, hooded and pallid mutants, 105; IV. Linkage studies with markers for groups III and VIII, 318.
Rothschild, A., *et al.*, A simple rearing container for *Drosophila*, 98.

Salivary gland chromosome variation in the *Drosophila affinis* subgroup: I. The C chromosome of "western" and "eastern" *Drosophila athabasca*, Dwight D. Miller and Robert A. Voelker, 87; II. A comparison of C-chromosome patterns in *D. athabasca* and fine related species, Dwight D. Miller and Warren G. Sanger, 323.
Sand, Seaward A., Genetic modification of cytoplasmic male sterility in tobacco, 175.
Sanger, Warren G. and Dwight D. Miller, Salivary gland chromosome variation in the *Drosophila affinis* subgroup; II. A comparison of C-chromosome patterns in *D. athabasca* and five related species, 323.
Saul, George B., II, *et al.*, Inherited hypothalamic diabetes insipidus in the Brattleboro strain of rats, 113.
Schaefer, Ann, *et al.*, Hairy pinnae in Nigeria, 174.
Schaffer, H. E., Heterochromatin in microspore of hybrids between *Nicotiana tabacum* and *N. otophora*: II. Statistical analysis, 45.
Schaible, Robert H., Progeny testing for recessive genes: Roles of parental types and gene frequencies, 120.
Schilling, Prentiss, *et al.*, The effect of sire on litter size in mice, 351.
Schlager, Gunther: Kidney weight in mice: Strain differences and genetic determination, 171; and Thomas H. Roderick, Secondary sex ratio in mice, 363.
Scott, J. P. *et al.*, Chromosome study of four breeds of dogs, 157.
Searle, A. G., An extension series in the mouse, 341.
Secondary sex ratio in mice, Gunther Schlager and Thomas H. Roderick, 363.
Selection breeding in jute, A. M. Eunus, 80.
Serological estimate of monozygotic twinning in sheep, William E. Stansfield, 211.
Sex chromosome mosaicism in a swine intersex, D. W. Vogt, 166.
Sex chromosome polymorphism in domestic cattle, Nat M. Kieffer and T. C. Cartwright, 35.

Sharma, J. N., *et al.*, Phenotypic variability of a spontaneous mutant of annual *Coreopsis*, 198.
Shelton, Maurice, A recurrence of the Ancon dwarf in Merino sheep, 267.
Siegel, Stanley J., Blood concentration of various neurological mutants of the mouse, 57.
Simple rearing container for *Drosophila*, A. Rothschild, W. V. Eisenberg and A. W. Vazquez, 98.
Singh, J. P. *et al.*, Phenotypic variability of a spontaneous mutant of annual *Coreopsis*, 198.
Singh, Prakash and Anubhava Narain, Haploid meiosis and its bearing on the constitution of the castor oil plant, 287.
Singh, R. B., A dioecious polyploid in *Rumex acetosella*, 168.
Singleton, W. Ralph, Genetics is easy (rev.), 8.
Sink, Kenneth and Maxwell Bempong, The karyotype of poinsettia, 259.
Slama, Karel and T. M. Rizki, An autosomal recessive gene in *Pyrrhocoris*, 327.
Sleepy-eye, an eyelid mutant of the fowl, Ralph G. Somes, Jr., 375.
Small-antenna, a sex-linked mutant of *Aedes aegypti*, Michael A. Dunn and George B. Craig, Jr., 131.
Smith, D. H., *et al.*, Chromosomes of the cereal leaf beetle, 361.
Smith, Harold H., *et al.*, Autoradiographic studies of DNA synthesis in the B chromosomes of *Crepis capillaris*, 297.
Smooth tongue in Brown Swiss cattle, Keith Huston, W. H. Leipold, and D. L. MacFadden, 65.
Snyder, John R. and Roger A. Kleese, Root proteins of nodulating and non-nodulating soybeans, 380.
Some oddities in the delayed appreciation of "Castle's law", Clyde Keeler, 110.
Somes, Ralph G., Jr.: A multi-trait case of lateral asymmetry in the fowl, 53; Sleepy-eye, an eyelid mutant of the fowl, 375.
Spontaneous mutation rate at the opaque-2 locus in maize, R. J. Lambert and D. E. Alexander, 378.
Standardized genetic nomenclature for the domestic cat, The committee on standardized genetic nomenclature for cats, 39.
Stansfield, William E., A serological estimate of monozygotic twinning in sheep, 211.
Stern, Curt, *et al.*, Hairy pinnae in Nigeria, 174.
Stevens, Leroy C. and Don S. Varnum, Aphakia, a new mutation in the mouse, 147.
Stevens, R. W. C. and G. J. King, Genetic evidence for a lethal mutation in Holstein Friesian cattle, 366.
Stojianov, M. J., *et al.*, Inheritance of dry pod-color in snap beans, 243.
Storey, William B., Mitotic phenomena in the spider plant, 23.
Swarup V., *et al.*, Phenotypic variability of a spontaneous mutant of annual *Coreopsis*, 198.
System of self-incompatibility in *Ipomoea*, Franklin W. Martin, 263.

Three recessive mutations producing disproportionate dwarfing in mice: Achondroplasia, brachymorphic, and stubby, Priscilla W. Lane and Margaret M. Dickie, 300.
Tucker, K. W. and H. H. Laidlaw, More allelism tests in honey bees by compound inseminations, 145.

Ukpe, O. J., *et al.*, Hairy pinnae in Nigeria, 174.
Underhill, Donald K., Heritability of dorsal spot number and snout-vent length in *Rana pipiens*, 235.
Unusual chromosomal findings in a case of myelofibrosis, Richard M. Goodman, Bertha A. Bouroncle, Frances Miller and Carol North, 348.
Use of *Amaranthus caudatus* in simulating the breeding behavior of commercial *Gossypium* species, P. D. Walton, 17.
Use of the genus *Amaranthus* in genetic studies, P. D. Walton, 76.

Vakil, D. V., *et al.*, Influence of hereditary and environmental factors on twinning in sheep, 256.
Valtin, Heinz, *et al.*, Inherited hypothalamic diabetes insipidus in the Brattleboro strain of rats, 113.
Varnum, Don S. and Leroy C. Stevens, Aphakia, a new mutation in the mouse, 147.
Vavliov, N. I., Further steps in the rehabilitation of, 274.
Vazquez, A. W., *et al.*, A simple rearing container for *Drosophila*, 98.
Venkateswarlu, J.: and J. V. Pantulu, Morphology of pachytene chromosomes in pearl millet, 69; and V. R. Reddi, Cytological studies of sorghum trisomics, 179.
Vig, Baldev K. and Elton F. Paddock, Alteration by Mitomycin C of spot frequencies in soybean leaves, 225.
Voelker, Robert A. and Dwight D. Miller, Salivary gland chromosome variation in the *Drosophila affinis* subgroup: I. The C chromosome of "western" and "eastern" *Drosophila athabasca*, 87.
Vogt, D. W., Sex chromosome mosaicism in a swine intersex, 166.

Walton, P. D.: The use of *Amaranthus caudatus* in simulating the breeding behavior of commercial *Gossypium* species, 17; The use of the genus *Amaranthus* in genetic studies, 76.
Watson, Margaret L., Blind—a dominant mutation in mice, 60.
Webster, G. T. and D. U. Gerstel, Heterochromatin in microspore nuclei of hybrids between *Nicotiana tabacum* and *N. otophora*: I. Experiments, 43.
Wellso, S. G., *et al.*, Chromosomes of the cereal leaf beetle, 361.
Whiting, P. W., Chromosomes of *Mormoniella*, 19.
Wilson, S. P., *et al.*: Genetic control of parthenogenesis in chickens, 41; Parthenogenetic chick, 67; The influence of selection and mating systems on larval weight in *Tribolium*, 313.
Winter, Robert J. and James W. Atz, Further steps in the rehabilitation of N. I. Vavilov, 274.
Womack, James and Ralph Bogart, Effects of irradiation on selection response in mice, 269.
Wong, M., *et al.*, Chromosome study of four breeds of dogs, 157.

Yoshida, Shoji, *et al.*, Early embryonic chrondrodystrophy in Japanese quail, 248.

Zirkle, Conway, An overlooked 18th century contribution to plant breeding and plant selection, 195.